Threats Analysis for the Florida Panther

SOUTH FLORIDA

Factor A: The present or threatened destruction, modification, or curtailment of the Florida panther's habitat or range.

											Stı	ress									
			l ex	ability for pansion of nge	E	Iabit	at d	estruction				oitat entation	Р	•	& la	n isolation ck of ectivity	F	Iabit	at deg	gradation	
	Severity	Scope		Stress rank	Severity	Scope		Stress rank	Severity	Scope		Stress rank	Severity	Scope		Stress rank	Severity	Scope		stress rank	
	V	V	7	Very high	V	Н		High	V	Н		High	Н	Н		High	Н	M	N	Iedium	
Source of stress	Contribution	Irreversibility	Rank	Threat rank	Contribution	Irreversibility	Rank	Threat rank	Contribution	Irreversibility	Rank	Threat rank	Contribution	Irreversibility	Rank	Threat rank	Contribution	Irreversibility	Rank	Threat rank	Factor A overall threat rank
Transportation projects	Н	Н	Н	Very high	L	V	M	Medium	V	V	V	High	M	V	Н	High	1	-	-	-	Very high
Lack of suitable habitat	V	Н	v	Very high	ı	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	Very high
Water management & conversion to water (includes CERP)	-	-	-	-	M	Н	M	Medium	M	V	Н	High	M	V	Н	High	L	M	L	Low	High
Residential development	-	-	-	-	V	V	V	High	Н	V	Н	High	-	-	-	-	ı	-	1	-	High
Inadequate habitat patch size	_	-	-	-	ı	-	ı	-	ı	-	-	-	M	V	Н	High	-	-	-	-	High
Mining and mineral exploration	_	-	-	-	L	V	M	Medium	L	V	M	Medium	ı	-	-	-	L	L	L	Low	Medium
Conversion of habitat to agriculture	-	-	-	-	L	Н	M	Medium	L	L	L	Low	-	-	-	-	M	Н	M	Low	Medium
Major ditches	-	-	-	-	-	-	-	-	L	V	M	Medium	-	-	-	-	-	-	-	-	Medium
Caloosahatchee river as a barrier	L	M	L	Medium	ı	-	ı	-	ı	-	-	-	-	-	-	-	-	-	-	-	Medium
Intensification of agricultural uses	-	-	-	-	ı	-	1	-	L	M	L	Low	-	-	-	-	L	Н	M	Low	Low
Invasive exotic plant species	_	-		-	1	-	1	-	1	-	1	-	ı		-	-	M	M	M	Low	Low
Lack of or poor habitat management	-	-	-	-	ı	-	1	-	1	-	-	-	-	-	-	-	M	M	M	Low	Low

SOUTH FLORIDA

Factor B: Overutilization for commercial, recreational, scientific, or educational purposes.

			eruti	ress lization for c purposes	
	Severity	Scope		Stress rank	
	L	L		Low	
Source of stress	Contribution	Irreversibility	Rank	Threat rank	Factor B overall threat rank
Impacts of capture and monitoring	L	L	L	Low	Low

SOUTH FLORIDA

Factor C: Disease and predation.

				ress sease	
	Severity	Scope		Stress rank	
	L	L		Low	
Source of stress	Contribution	Irreversibility	Rank	Threat rank	Factor C overall threat rank
All diseases	L	M	L	Low	Low

SOUTH FLORIDA

Factor D: The inadequacy of existing regulatory mechanisms.

The South Florida subteam believed regulatory mechanisms were more appropriately considered as strategies underlying the other stresses and sources. Therefore, they chose not to evaluate Factor D.

SOUTH FLORIDA

Factor E: Other natural or manmade factors affecting the Florida panther's continued existence.

Factor E: Other natura	ai U	1 111	<u>am</u>	IAUT IÄUUF	o all	ectl	mg (ac Fioriua	har	11116		ess:	AISU	EHU	<u>. </u>						
]	Pant	her	mortality				genetic	D	eclir		f prey base	(Gene	etic s	wamping	Lo	fe	or pa	of support anther vation	
	Severity	Scope		Stress rank	Severity	Scope		Stress rank	Severity	Scope		Stress rank	Severity	Scope		Stress rank	Severity	Scope	1	Stress rank	
	Н	Н		High	M	Н		Medium	M	M		Medium	L	V		Low	L	V		Low	
Source of stress	Contribution	Irreversiblity	Rank	Threat rank	Contribution	Irreversiblity	Rank	Threat rank	Contribution	Irreversiblity	Rank	Threat rank	Contribution	Irreversiblity	Rank	Threat rank	Contribution	Irreversiblity	Rank	Threat rank	Factor E overall threat rank
Intraspecific aggression	Н	V	Н	High	-	-	-	-	_	-	-	-	-	-	-	-	-	-	-	-	High
Mercury toxicity	L	V	M	Medium	-	-	-	-	_	-	-	-	-	-	-	-	-	-	-	-	Medium
Road kills	Н	M	M	Medium	-	-	-	-	_	-	-	-	-	-	-	-	-	-	-	-	Medium
Illegal kill	L	Н	M	Medium	-	-	-	-	_	-	-	-	-	-	-	-	-	-	-	-	Medium
Disease	L	Н	M	Medium	-	-	-	-	_	-	-	-	-	-	-	-	-	-	-	-	Medium
Effect of small population size	-	-	-	-	V	M	Н	Medium	-	-	-	-	-	-	-	-	-	-	-	-	Medium
Lack of suitable habitat	-	-	-	-	V	V	V	Medium	-	-	-	-	-	-	-	-	-	-	-	-	Medium
Lack of corridors for dispersal	-	-	-	-	M	Н	M	Low	-	-	-	-	-	-	-	-	-	-	-	-	Low
Escape of captive pumas	-	-	-	-	-	-	-	-	-	-	-	-	L	Н	M	Low	-	-	-	-	Low
Managed releases of pumas	-	-	-	-	-	-	-	-	-	-	-	-	M	M	M	Low	-	-	-	-	Low
Ungulate disease	-	-	-	-	-	-	-	-	L	Н	M	Low	-	-	-	-	-	-	-	-	Low
Water management or conversion to water	-	-	-	-	-	-	-	-	M	M	M	Low	-	-	-	-	-	-	-	-	Low
Natural climate or environmental change	-	-	-	-	-	-	-	-	L	V	M	Low	-	-	-	-	-	-	-	-	Low
Lack of or poor prey management (e.g, over hunting)	1	-	-	-	1	-		-	L	L	L	Low	-	-	-	-	-	-	-	-	Low
Prey habitat loss/degradation	-	-	-	-	-	-	ı	-	M	Н	M	Low	-	-	-	-	-	-	-	-	Low
Exotic prey management	-	-	-	-	-	-	-	-	L	L	L	Low	-	-	_	-	-	-	_	-	Low
Change in the legal description	-	_	-	-	_	-	-	-	_	_	_	-	-	_	-	-	V	Н	V	Low	Low
Public fear of panthers	-	_	-	-	-	_	-	-	_	-	-	-	-	_	-	-	L	M	L	Low	Low
Landowner fear of regulation, lost property rights and negative economic consequences	-	-	1	-	-	-	1	-	_	-	-	-	-	-	-	-	Н	М	M	Low	Low

Threats Analysis for the Florida Panther

Factor A: The present or threatened destruction, modification, or curtailment of the Florida panther's habitat or range.

								<u> </u>			Str	ess									
				entified al habitat		fra		oitat entation	Н	Iabit	at d	estruction		mai	nage	patible ement of e lands		ma	nage	patible ement of c lands	
	Severity	Scope		Stress rank	Severity	Scope		Stress rank	Severity	Scope		Stress rank	Severity	Scope		Stress rank	Severity	Scope		Stress rank	
	V	V	,	Very high	V	V	7	Very high	Н	Н		High	M	M		Medium	L	M		Low	
Source of stress	Contribution	Irreversibility	Rank	Threat rank	Contribution	Irreversibility	Rank	Threat rank	Contribution	Irreversibility	Rank	Threat rank	Contribution	Irreversibility	Rank	Threat rank	Contribution	Irreversibility	Rank	Threat rank	Factor A overall threat rank
Urbanization	-	-	-	-	M	V	Н	Very high	M	V	Н	High	-	-	-	-	-	-	-	-	Very high
Transportation Projects	-	-	-	-	V	V	V	Very high	Н	Н	Н	High	-	-	-	-	-	-	-	-	Very high
Low density residential development	-	-	-	-	V	Н	V	Very high	V	Н	V	High	-	-	-	-	-	-	-	-	Very high
Lack of land use planning	-	-	-	-	Н	V	Н	Very high	-	-	-	-	-	-	-	-	ı	-	-	-	Very high
Inadequate evaluation of potential habitat in historical range	V	L	Н	Very high	-	-	1	1	-	1	1	-	-	1	1	-	ı	-	-	-	Very high
Lack of prioritization system among areas	V	L	Н	Very high	1	-	-	1	-	1	1	-	ı	1	-	-	1	-	-	-	Very high
Conversion of habitat to agriculture	-	-	-	-	M	M	M	High	M	M	M	Medium	1	-	-	-	1	-	-	-	High
Human recreational uses in panther habitat	-	-	-	-	M	M	M	High	M	M	M	Medium	1	-	-	-	M	M	M	Low	High
Invasive exotic plant species	-	-	-	-	L	Н	M	High	L	Н	M	Medium	ı	-	-	-	ı	-	-	-	High
Large public works projects (e.g, dams)	-	ı	-	-	L	V	M	High	L	V	M	Medium	ı	ı	-	-	ı	-	-	-	High
Lack of incentives to maintain/restore panther habitat	_	-	-	-	Н	M	M	High	Н	M	M	Medium	Н	M	M	Low	ı	ı	ı	-	High
Lack of complete data in historical range	M	M	M	High	-	-	-	-	-	ı	ı	-	ı	ı	-	-	ı	-	-	-	High
Right of ways	-	ı	-	-	L	V	M	High	-	ı	-	-	- 1	-	-	-	ı	-	-	-	High
Conversion of habitat to silviculture	-	-	_	-	L	L	L	Medium	L	L	L	Low	-	-	-	-	-	-	_	-	Medium
Mining and mineral exploration	-	-	-	-	L	M	L	Medium	L	M	L	Low	-	1	-	-	ı	-	_	-	Medium
Conflicting mandates	-	-	-	-	-	_	-	-	_	-	-	-	Н	Н	Н	Medium	L	Н	M	Low	Medium
Conflicting management for other species	-	-	-	-	-	-	-	-	-	-	-	-	L	L	L	Low	L	L	L	Low	Low
Lack of implementation of management plans	-	-	-	-	-	-	-	-	-	-	-	-	Н	M	M	Low	L	M	L	Low	Low

REINTRODUCTION

Factor B: Overutilization for commercial, recreational, scientific, or educational purposes.

ractor b. Overutinzati				,	
		Over		ess vation for purposes	
	Severity	Scope		Stress Rank	
	L	Н		Low	
Source of stress	Contribution	Irreversibility	Rank	Threat Rank	Factor B overall threat rank
Impacts of capture and monitoring	L	L	L	Low	Low
Impacts of removals					

Factor C: Disease and predation.

Factor C: Disease and	pre	uuu	011.										
							Str	ess					
			Dise	ease			Para	sites		I	Pred	ation	
	Severity	Scope		Stress rank	Severity	Scope		Stress rank	Severity	Scope		Stress rank	
	L	Н		Low	L	Н		Low	L	L		Low	
Source of stress	Contribution	Irreversibility	Rank	Threat rank	Contribution	Irreversibility	Rank	Threat rank	Contribution	Irreversibility	Rank	Threat rank	Factor C overall threat rank
Rabies	M	M	M	Low	-	-	-	-	-	-	-	-	Low
Pseudorabies	Н	M	M	Low	-	-	-	-	-	1	-	-	Low
Hookworm	-	-	-	-	Н	M	M	Low	-	-	-	-	Low
Manges	-	-	-	-	Н	M	M	Low	-	1	-	-	Low
Unknown/other	L	L	L	Low	L	L	L	Low	-	-	-	-	Low
All sources of predation	-	1	1	-	-	-	-	-	V	M	Н	Low	Low

Factor D. The inadequacy of existing regulatory mechanisms.

ractor D. The madequ							ess						
			-	e land use r regulation				agency nation]	re	gula	tent state tion or ection	
	Severity	Scope		Stress rank	Severity	Scope		Stress rank	Severity	Scope		Stress rank	
	V	V	7	Very high	Н	V		High	Н	L		Low	
Source of stress	Contribution	Irreversibility	Rank	Threat rank	Contribution	Irreversibility	Rank	Threat rank	Contribution	Irreversibility	Rank	Threat rank	Factor D overall threat rank
Inadequate development, implementation, and enforcement of comprehensive plans and zoning	V	Н	V	Very high	-	1	1	'	-	-	1	-	Very high
Inadequate growth management planning and implementation	V	Н	V	Very high	1	-	-	-	1	-	-	-	Very high
Little or no protection of upland habitats	Н	Н	Н	Very high	-	-	-	-	-	-	-	-	Very high
Inadequate development and implementation of corridor/greenway planning	V	Н	V	Very High	1	1	1	-	-	-	1	-	Very high
Lack of cumulative impacts evaluation	Н	Н	Н	Very high	ı	1	-	-	-	1	-	-	Very high
Inadequate land conservation or acquisition programs	Н	Н	Н	Very high	1	-	-	-	-	-	-	-	Very high
Lack of public awareness of environmental issues and needs	Н	Н	Н	Very high	1	1	-	-	-	-	-	-	Very high
Conflicting laws, regulations, mandates, or policies	M	M	M	High	-	-	-	-	Н	M	M	Low	High
No mechanism for agency communication or coordination	-	-	-	-	Н	L	M	Medium	Н	L	M	Low	Medium
Lack of a mutually defined common goal		-	-	-	Н	L	M	Medium	Н	L	M	Low	Medium
Interagency distrust and lack of relationships and partnerships	-	-	-	-	M	M	M	Medium	-	-	-	-	Medium

Factor E. Other natural or manmade factors affecting the Florida panther's continued existence.

Factor E. Other natura	1 01 11	ııaııııı	auc 12	actors affects	ng the	FIOTI	ua pa	nuier s conti	nueu	CAISIC	nce.					Str	ress																
		re	esisten	downer nce to uction		re	cal and				man/p	panther tions		Pant	her n	nortality				ability and onnectivity				ng prey ement	C			th escaped er pumas	C	Comp	etition spec	with other	
	Severity	Scope		Stress rank	Severity	Scope		Stress rank	Severity	Scope		Stress rank	Severity	Scope		Stress rank	Severity	Scope		Stress Rank	Severity	Scope		Stress rank	Severity	Scope		Stress rank	Severity	Scope		Stress rank	
	V	V	\	Very high	V		\	Very high	Н	V		High	Н			High	M	Н		Medium		Н		Medium	L	M		Low	L	Н		Low	
Source of stress	Contribution	Irreversibility	Rank	Threat rank	Contribution	Irreversibility	Rank	Threat rank	Contribution	Irreversibility	Rank	Threat rank	Contribution	Irreversibility	Rank	Threat rank	Contribution	Irreversibility	Rank	Threat rank	Contribution	Irreversibility	Rank	Threat rank	Contribution	Irreversibility	Rank	Threat rank	Contribution	Irreversibility	Rank	Threat rank	Factor E overall threat rank
Public perception, misconception and lack of knowledge	v	M	Н	Very high	-	-	-	-	v	М	Н	High	-	-	-	-	-	-	-	-	Н	М	M	Low	-	-	-	-	-	-	-	÷	Very high
Conflicts with livestock (attacks on)	v	М	Н	Very high	v	М	Н	Very high	М	М	М	Medium	-	-	=	-	-	-	-	-	-	-	-	-	-	-	-	·	-	-	=	ı	Very high
Public fear of panthers (including fear of attacks and mortality)	V	Н	V	Very high	V	Н	V	Very high	-	1	1	-	1	ī	-	-	1	-	1	-	-	1	1	-	1	-	1	ı	-	-	1	ı	Very high
Distrust of government agencies	Н	Н	Н	Very high	Н	Н	Н	Very high	·	-	-	-	•	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Very high
Agency funding and resource constraints	-	-	-	-	V	М	Н	Very high	-	-	-	-	-	-	-	-	-	-	-	-	_	-	_	-	-	L	-	-	-	-	-	-	Very high
Lack of incentives for states	-	-	-	-	Н	Н	Н	Very high	-	-	-	-	-	-	<u>-</u>	-	-	-	-	-	<u> </u>	-	-	-	-	igspace	-	-	-	-	-	-	Very high
Agency's fear of liability (political, financial and professional)	-	-	-	-	V	М	Н	Very high	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Very high
Public official's fear of losing constituent's support	-	-	-	-	Н	Н	Н	Very high	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Very high
Influence of opposing special interest groups on public officials	-	-	-	-	V	v	v	Very high	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Very high
Conflicts with hunters and hunting	Н	M	M	High	Н	М	М	High	Н	М	М	Medium	-	-	-	-	-	-	-	-	Н	М	М	Low	-	-	-	-	-	-	-	-	High
Landowner fear of regulation, lost property rights and negative economic consequences	Н	М	М	High	Н	М	М	High	-	-	1	-	-	=	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	High
Media sensationalism and panther myths	М	М	М	High	М	М	М	High	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	High
Relationships among potential supporting landowners and their neighbors	М	М	М	High	М	М	М	High	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	High
Lack of panther information dissemination to public officials and agencies	-	-	-	-	Н	L	М	High	-	-	1	-	-	-	-	-	-	-	-	-	М	L	L	Low	-	-	1	-	-	-	-	-	High
Road kills	-	-	-	-	-	-	-	-	-	-	-	-	Н	Н	Н	High	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	High
Accidental death (including contaminants)	-	-	-	-	-	-	-	-	-	-	-	-	H L	Н	M M	Medium Medium	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Medium
Natural catastrophes		-	-	-	-	-	-	-	-	-	-	-	L	V	М	Medium	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Medium
Small number of founder panthers available	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	V	М	Н	Medium	-	-	-	-	-	-	-	-	-	-	-	-	Medium
Unidentified or secured pathways for dispersal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Н	Н	Н	Medium		-	-	-	-		-	-	-	-	-	-	Medium
Deer Management	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	V	М	Н	Medium	-	-	-	-	-	-	-	-	Medium
Intraspecific aggression or predation	-	_	-	-	Ŀ	-	-	-	-	-	-	-	L	М	L	Low	-	-	-	-		-	_	-	-		-	-	L	М	L	Low	Low
Removal of panthers for management purposes		-	-	-	-	-	-	-	-	-	-	-	L	М	L	Low	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Low
Panther visibility to local public	-	-	-	-	-	-	-	-	М	L	L	Low	-	-	-	-	-	-	-	-	_	-	-	-	-	Ŀ	-	-	-	-	-	-	Low
Inadequate regulation or understanding of distribution and occurrence of pet pumas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Н	М	М	Low	-	-	-	-	Low
Competition with other large predators	-	-	-	-	ŀ	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Ŀ	-	-	-	-	-	-	-	L	L	L	Low	Low
Feral Hog Management	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Н	М	M	Low	-	-	-	-	-	-	-	-	Low